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PLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/602,539	06/24/2003	Russell Mark Richman	6 1677		
7590 03/14/2006			EXAMINER		
Ryan, Mason & Lewis, LLP			NGUYEN, LEE		
Suite 205 1300 Post Road		ART UNIT	PAPER NUMBER		
Fairfield, CT 06430			2682		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No. 10/602,539		Applicant(s) RICHMAN, RUSSELL MARK				
						Examiner		Art Unit
				LEE NGU		2682		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH 136(a). In no eve will apply and will e, cause the appl	IIS COMMUNICATION int, however, may a reply be tin I expire SIX (6) MONTHS from ication to become ABANDONE	N. nely filed the mailing date of this ∝ D (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) filed on							
		—· s action is n	on-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)🖂	4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) 1-21 is/are rejected.							
7)	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction and/o	or election re	equirement.					
Applicati	ion Papers							
9)	The specification is objected to by the Examine	er.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some ★ c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
* 0	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachma-	t/s\							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.								
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date)	5) Notice of Informal P 6) Other:	atent Application (PTC	D-152)			

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DETAILED ACTION

Information Disclosure Statement

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 5, 10, 14-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Metze (U.S. Patent 5,754,948).

Regarding claims 1, 14, Metze teaches a method for wireless communication among first and second integrated circuit devices 16 within an enclosure 12 (fig. 1), said method comprising the steps of: transmitting a signal using a first antenna associated with said first integrated circuit device (see antenna in fig. 2); and receiving said signal using a second antenna associated with said second integrated circuit device (see antenna, fig. 2) within said enclosure 12.

Regarding claims 2, 20, Metze teaches the method of claim 1, wherein said first and second antennas are incorporated in said first and second integrated circuit devices (see fig. 2).

Regarding claims 5, 15, 18 Metze teaches the method of claim 1, wherein said signal comprises one or more channels (col. 5, lines 15-24).

Regarding claims 10, 16, 19, Metze teaches the method of claim 1, wherein said enclosure is a housing of a self-contained device (fig. 1, numeral 12).

Regarding claim 17, Metze teaches an integrated circuit device 16 within an enclosure 12 (fig. 1), comprising: at least one circuit (18, fig. 2); and an antenna (see antenna, fig. 2) for transmitting a signal to a second integrated circuit device 16 within said enclosure 12 (fig. 1).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Metze in view of Cheung et al (U.S. Patent 6,577,157).

Regarding claims 3, 21, Metze teaches the method of claim 2. However, he fails to teach that at least one of said first and second antennas is a pin on said first or second

integrated circuit device. In an analogous art, Cheung teaches that the pins of an IC circuit can be used to provide different functions (col. 1, lines 56-59), some of which can also be antennas if desired (col. 5, lines 44-49). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Cheung to the devices of Metze in order to reduce the space of the IC. thereby reducing the size of the enclosure.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Metze in view of Nozawa et al. (U.S. Patent 6,942,157).

Regarding claim 4, Metze teaches the method of claim 2. However, he fails to teach that at least one of said first and second antennas is printed on said first or second integrated circuit device. However, Nozawa teaches that antenna can be conductor film printed on the IC (figs. 8-9, col. 8, lines 1-30). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Nozawa to the devices of Metze in order to reduce the space of the IC, thereby reducing the size of the enclosure.

Claims 6, 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Metze.

Regarding claim 6, Metze teaches the method of claim 1. Metze fails to teach that one or more signals are transmitted by said first antenna using one or more associated sub-

carrier frequencies. However, as illustrated in the rejection of dependent claim 5, the signal comprises one or more channels; therefore, it could obviously comprises one or more sub-carrier frequencies because channels or frequencies can also be sub-carrier frequencies. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include sub-carrier frequencies into the system of Metze in order to allow more IC to be involved in the communication system.

Regarding claims11-13, Metze teaches the method of claim 1. He fails to teach that said signal is transmitted in accordance with an 802.11 wireless standard, or said signal is transmitted in accordance with an ultra wide band wireless standard, or said signal is transmitted in accordance with a Bluetooth standard. However, Metze also suggests that the frequencies are used and fall within the standard IEEE definition (col. 5, lines 28-32) and that wide bandwidth MIMICs operating at well above 100 GHz are now commercially available (col. 3, lines 62-64). Therefore, it is obvious that the system of Metze can also apply to 802.11 wireless standard, or an ultra wide band wireless standard, or with a Bluetooth standard. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include different short-range standards into the system of Metze in order to enjoy frequency channels assigned by the FCC.

Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Metze in view of Ghaem (U.S. Patent 5,335,361).

Regarding claims 7-9, Metze teaches the method of claim 1. Metze fails to teach that said signal is time-division multiplexed, or said signal is frequency-division multiplexed, said signal is spatially multiplexed. In the same field of Metze, Ghaem teaches that dependent on the choice, time division or frequency division multiplexing could be used by the ICs (col. 4, line 53 through col. 5, line 7). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the multiplexing teaching of Ghaem into the system of Metze in order to enable simultaneous communication without interference.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEE NGUYEN whose telephone number is 571-272-7854. The examiner can normally be reached on FIRST FRIDAY OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ANDERSON D. MATTHEW can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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LEE NGUYEN
PRIMARY EXAMINER